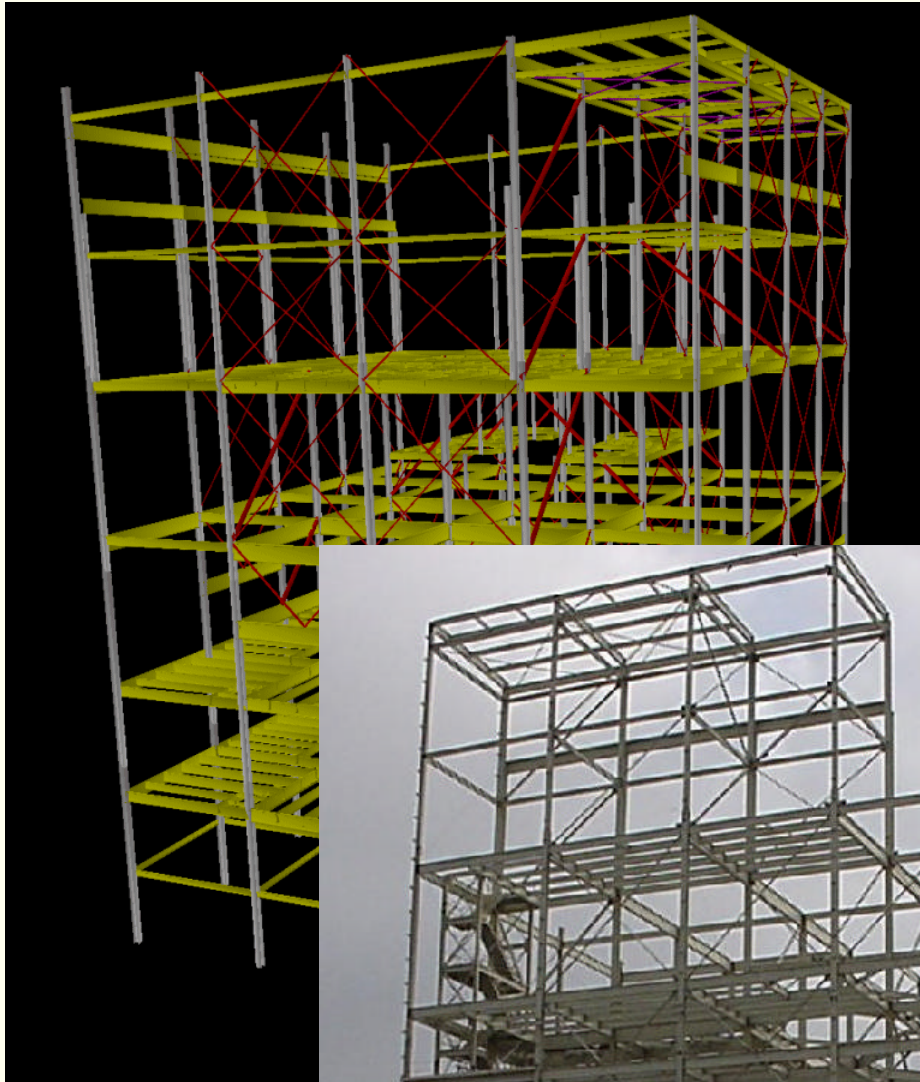


# SteelCad



©1981-2003, SteelCad Consulting Corporation  
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[www.steelcad.com](http://www.steelcad.com)

1-800-456-7875

**automated steel detailing and fabrication software  
for the new millennium**

# Welcome to SteelCad

Originally designed **for steel detailers** and **by steel detailers**, our program grew quickly to include shop-specific standards, production control export, and CNC machinery interface for steel fabricators as well.

Twenty years later we're **still the industry leader**. . . for a reason. We're simply the **only** choice for **true** steel detailing and automated steel fabrication software.

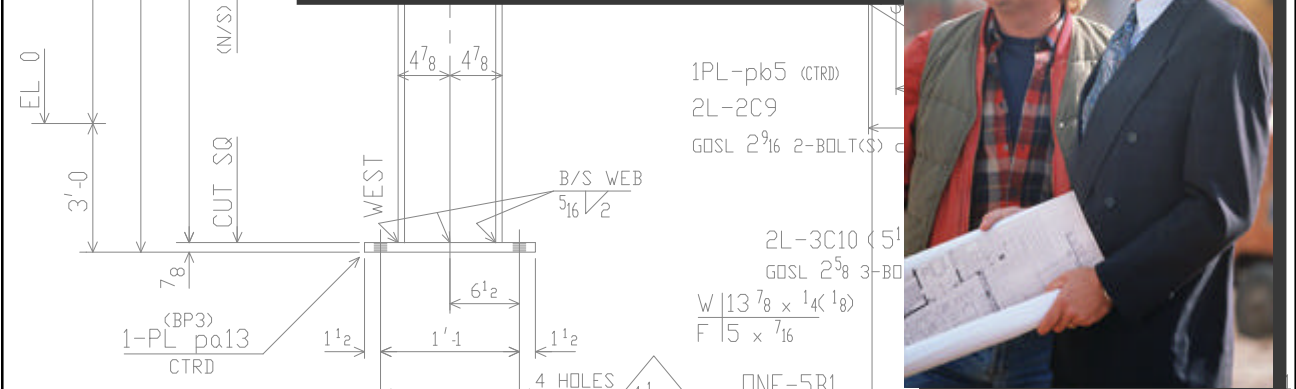
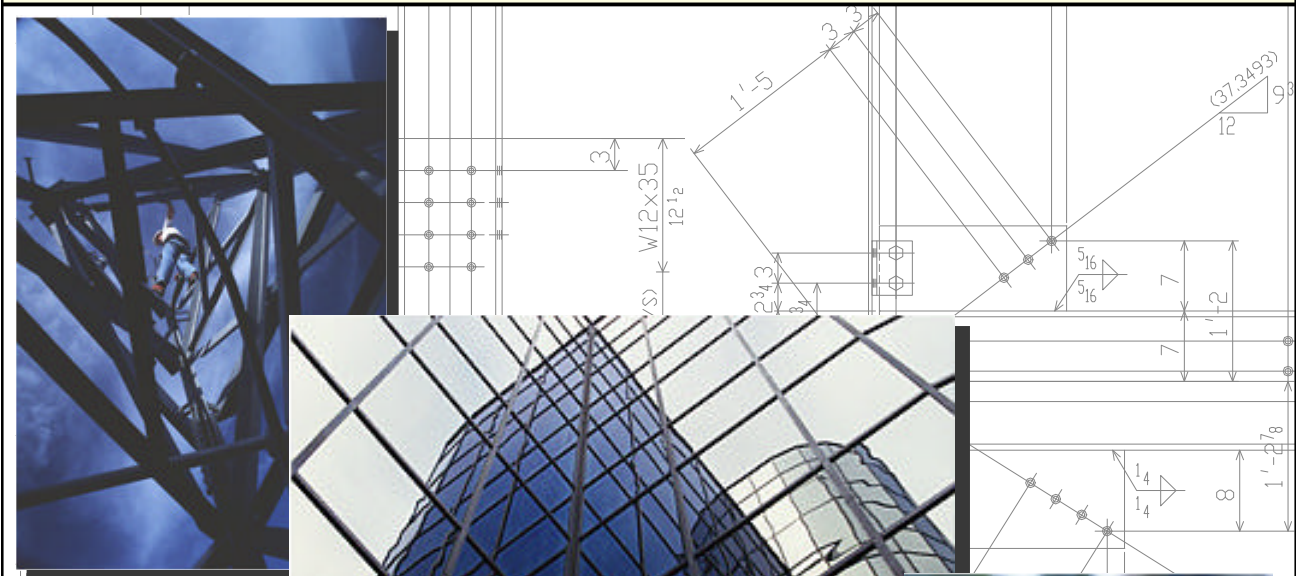


**20 years  
industry  
leader!**

**20 years industry leader!**

SteelCad is still the **only** software that can design **and** detail a job from start to finish directly from an engineer's drawings using either AISC or CISC standards, Imperial or metric units (or both), complete with **proper** detailing and design procedures, shop-ready detail drawings, and piece-marked erection drawings, all with a user-friendly interface that **you don't have to be a programmer to use.**

All of the details and drawings you see in this brochure have been **unaltered** except to scale the details to fit the space allotted. Otherwise they appear here **exactly** as they would be generated **directly from SteelCad**, with no CAD or hand alteration **whatsoever**.



... We're the **best** by far, and we can **prove** it!

# time . . .

## Simplicity

## Speed

## Accuracy

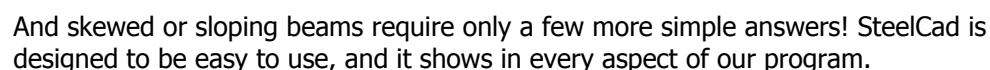
## Clarity

## Versatility

## Reliability

## Compatibility

... then you can detail this beam in a matter of **seconds!**



... the one you can **trust** for the job is **SteelCad.**

## Let's see why . . .

# Speed **IS** Accuracy

Just because a program is **quick** doesn't mean that it is necessarily **accurate**. But **SteelCad** is **both**.

How can we be sure? The answer is simple. Our program designs **every connection** based upon the latest AISC or CISC design standards and the material grades and loading conditions for each connection on a given job. You can choose to have SteelCad design connections based on LRFD, LSD, or ASD standards. If a connection fails, SteelCad will adjust the connection material to accommodate the load.

We've been designing connections for **twenty years** all across the United States and Canada, and feedback from our users tells us that our connection design is **far more accurate** than detailing by hand or in CAD, and certainly more accurate than other detailing software that doesn't even design connections for you.

If that's not enough, SteelCad can generate **design calculations** for connections **as you detail**, or at the end of a job in a single searchable text file that can be sent to any word processor for formatting, printing or sending via fax to the engineer.

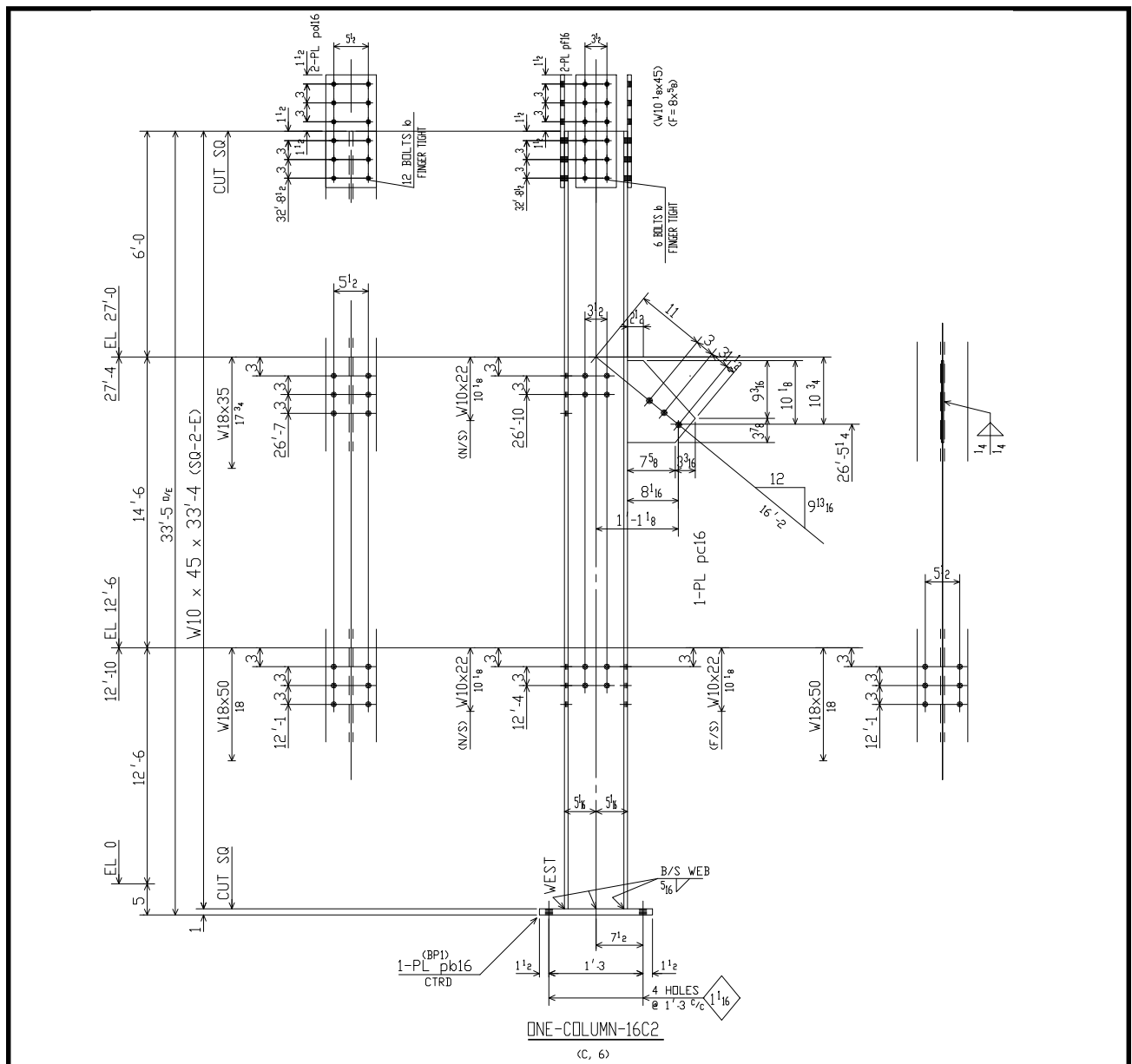
Below is a sample design calculation report for the left end of the beam shown on page three.

STEELCAD CONSULTING CORPORATION			
CONTRACT #: EXAM		PROJECT: ANY PROJECT	PIECE MARK: 16B2
16B2	W12x53	(A36)	Span = 30 '
Depth	12.	Left Reaction	= 29.13 Kips
Width	10.	Left Moment	= 0 (bolted)
Web	.345	Left Connection	2-L 4 x 3 1/2 x 5/16 x 5 1/2 (A36)
Flange	.58	Connection	2 Row(s) 3/4 A325(N) bolts (open holes)
Mr	140	Shear Capacity beam (gross)	80.48 Kips
Fu	58	Shear Capacity beam (net:bolts)	54.02 Kips
Fy	36	Shear Capacity angles (net)	63.21 Kips
		Weld Capacity (max)	(not calculated)
		Block Shear Capacity	(not calculated)
		Top Cope	None
		Bottom Cope	None
		Buckling Stress	(not calculated)
		Reinforcing Plate(s) 0 Side(s)	.x.x. (1/16)
Left End Frames to : Column flange 1 sided			
W14x257	(A36)	Bolt bearing capacity	63.61 Kips
Depth	16.38		
Width	16.		
Web	1.175		
Flange	1.89		
Fu	58		
Fy	36		

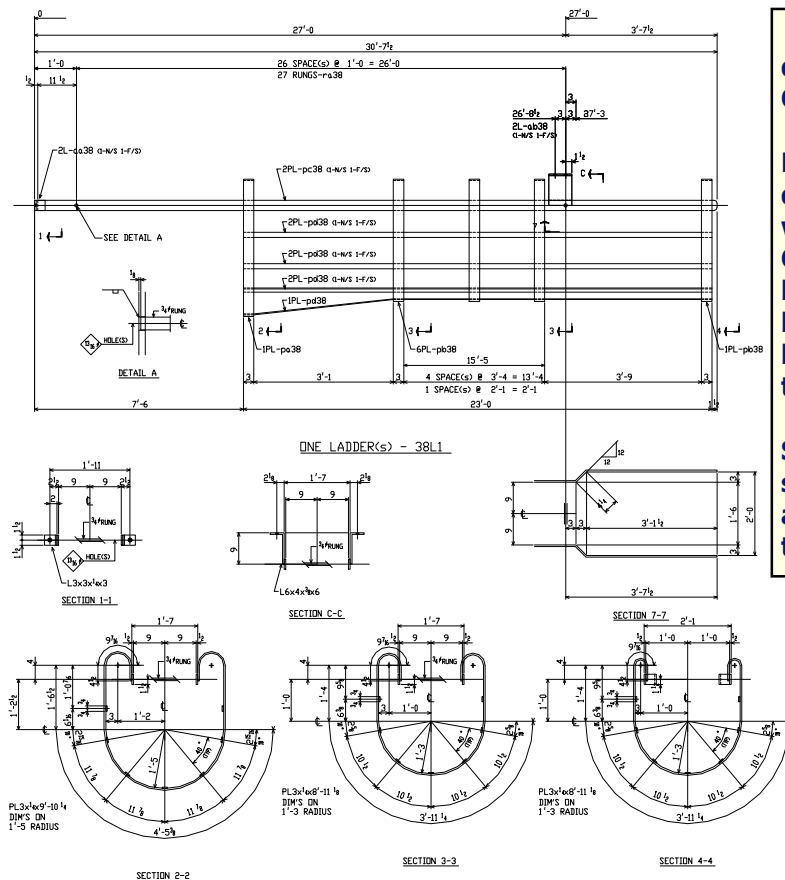
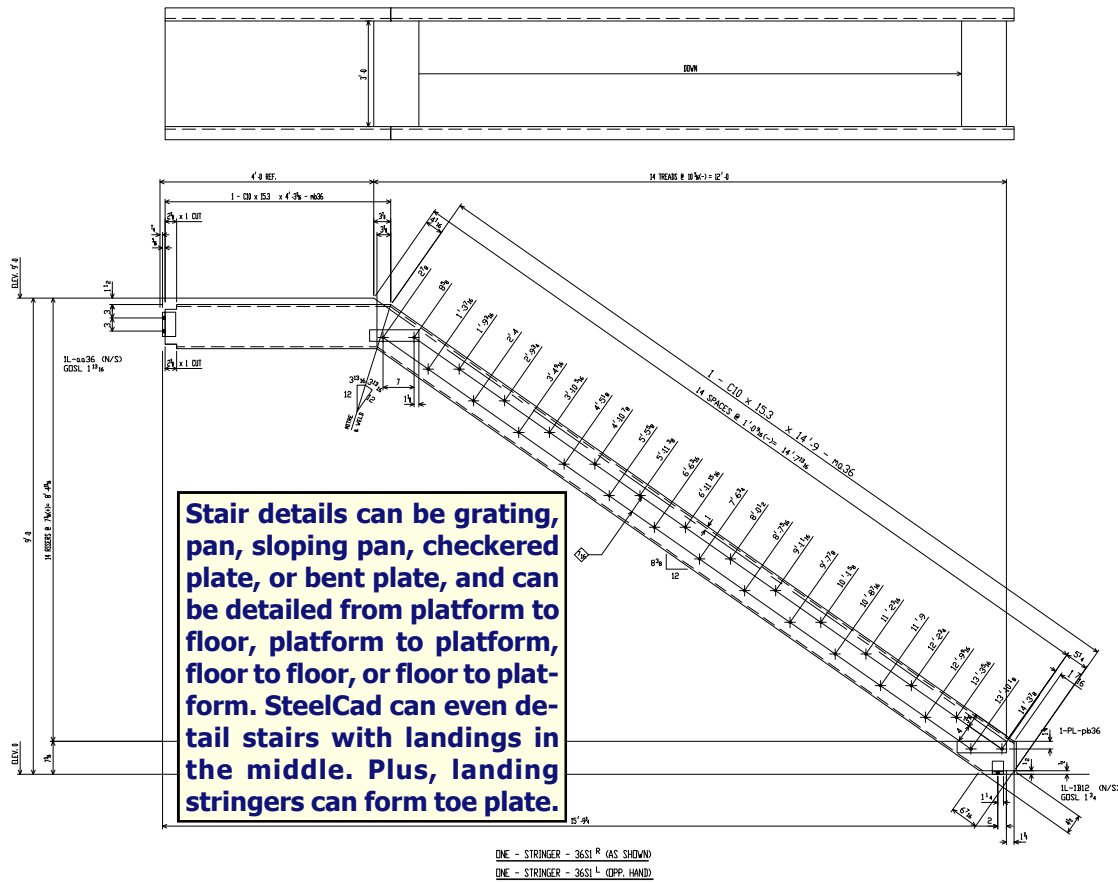
To help ensure that the details produced by SteelCad are accurate, you can generate this information for your checker. Add this to the fact that SteelCad can produce detailed reference dimensions, mating member information, and loading criteria for the checker right on the details, and you'll see that we do **everything** possible to ensure that details created using SteelCad are always accurate **before** they go to the shop.

But simplicity and accuracy are nothing if the drawings aren't clean and concise right from the program. With some detailing software the drawings generated are sloppy, at best, and at worst they are unusable in the shop until you've spent hours upon hours cleaning up after the program is "finished" with the drawings.









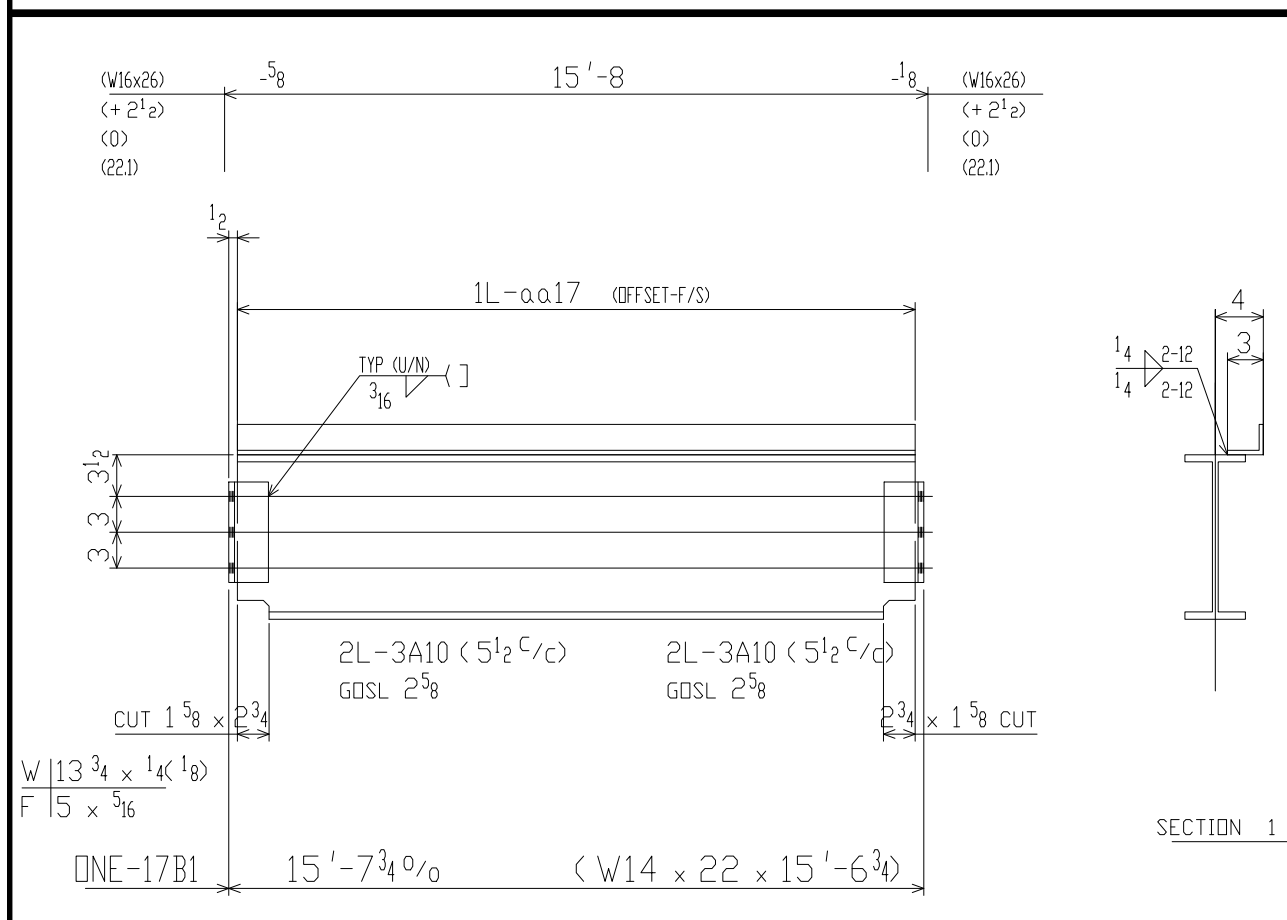
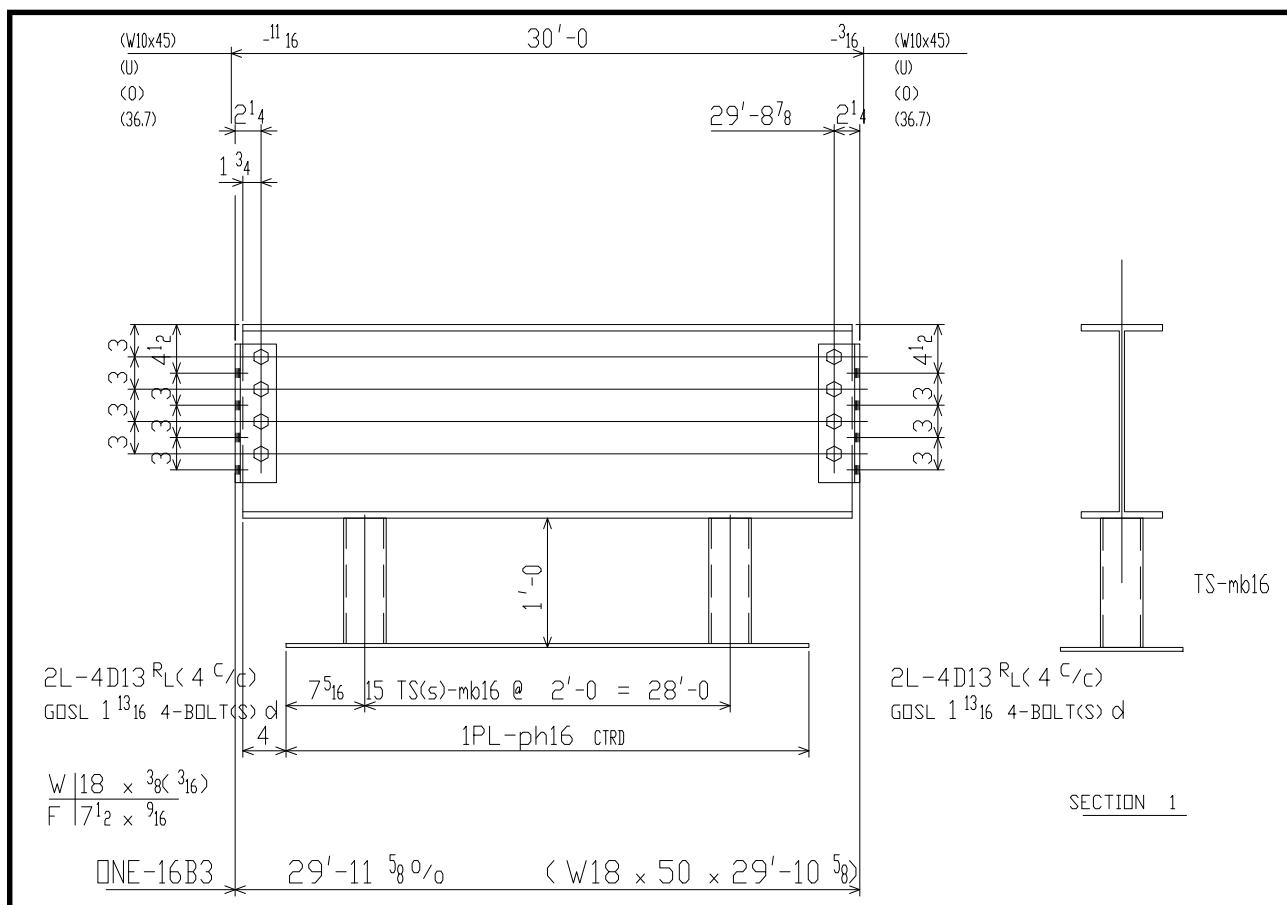
**SteelCad's ladders conform to OSHA standards.**

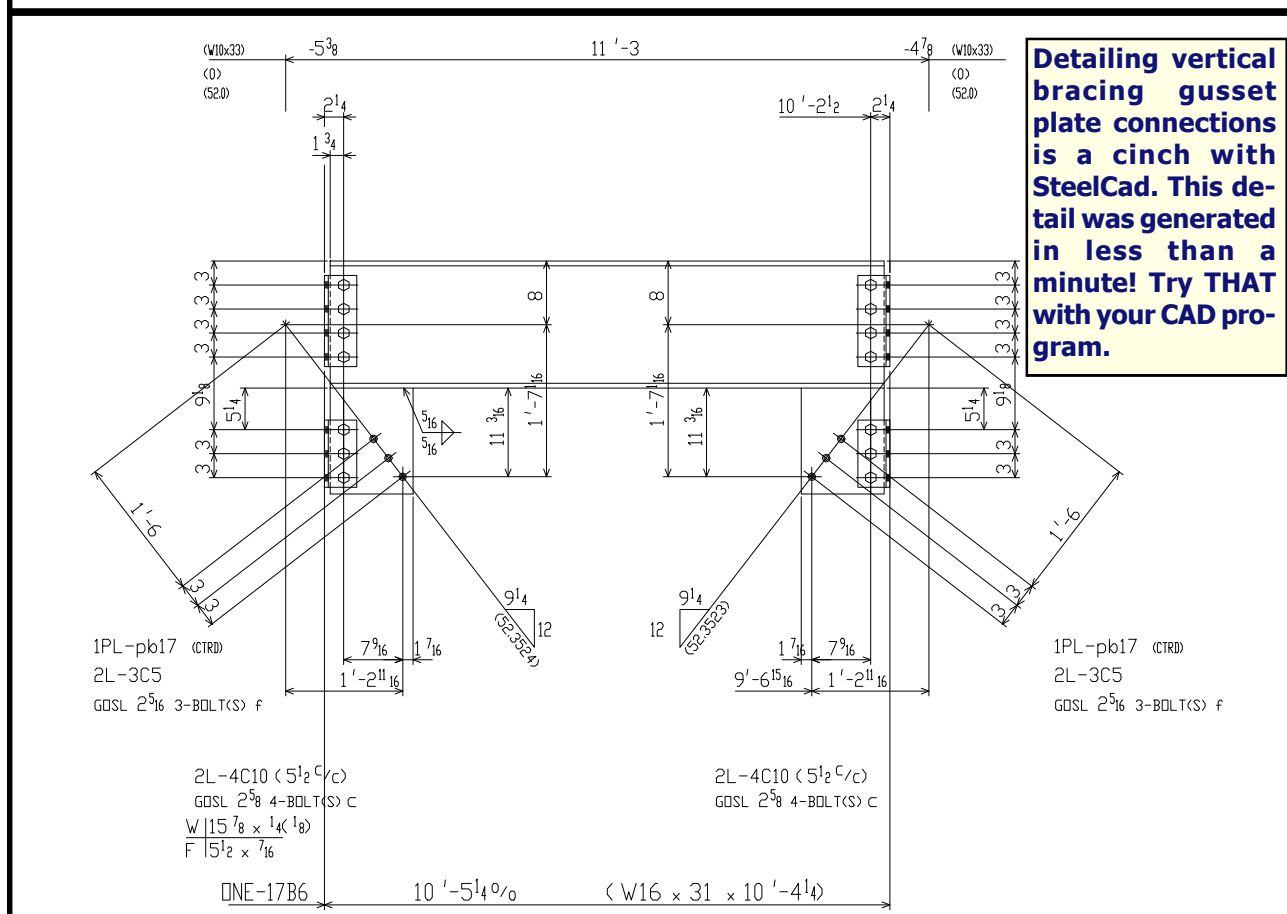
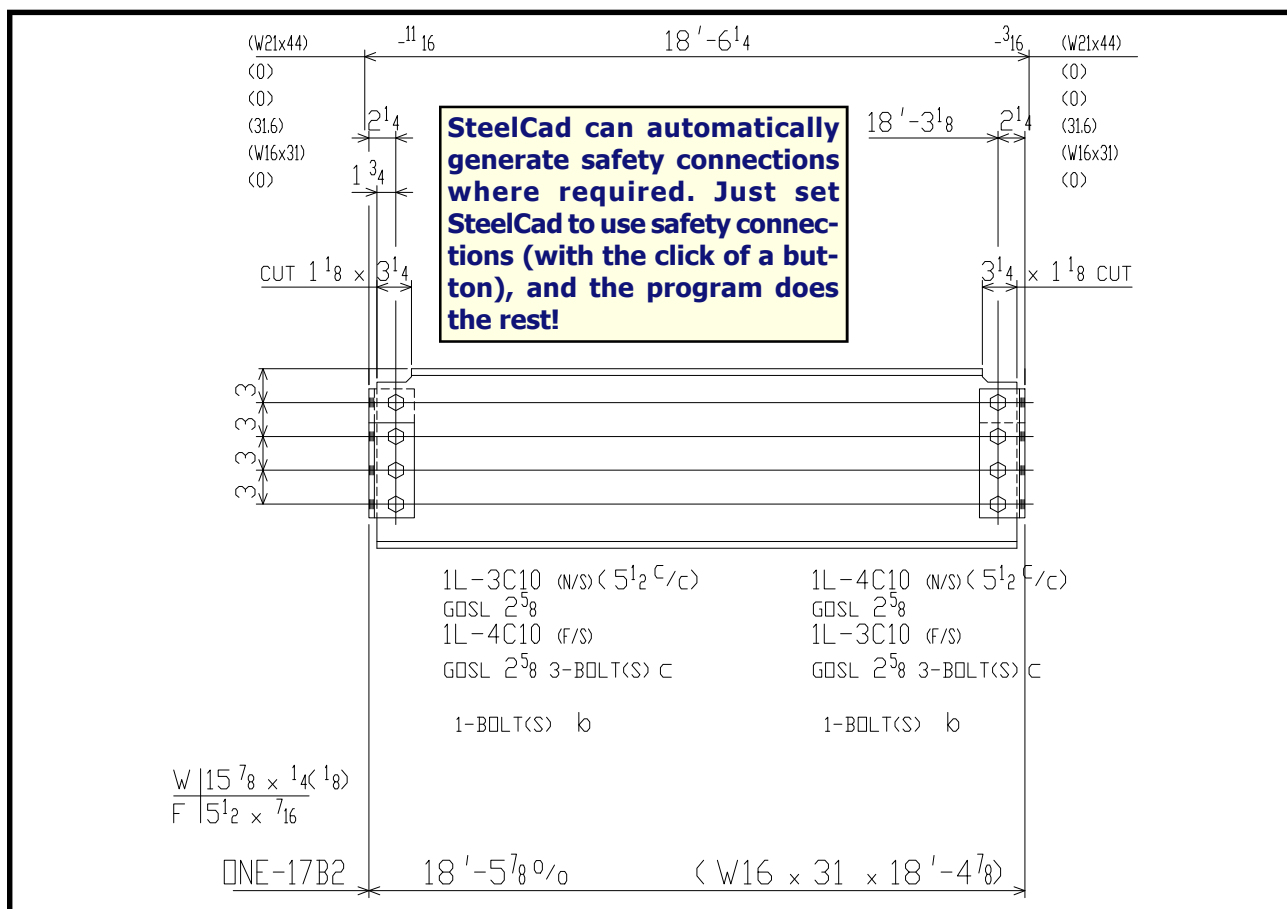
**Ladders can be detailed with or without cages. Choose from a broad range of hoop and vertical bar types or locations.**

**Step-thru's, side-steps, landings, and handrail returns are a cinch!**









# Speed **IS** Versatility

Before we can fully explain the extent of Steelcad's versatility, we first need to explain its core concept.

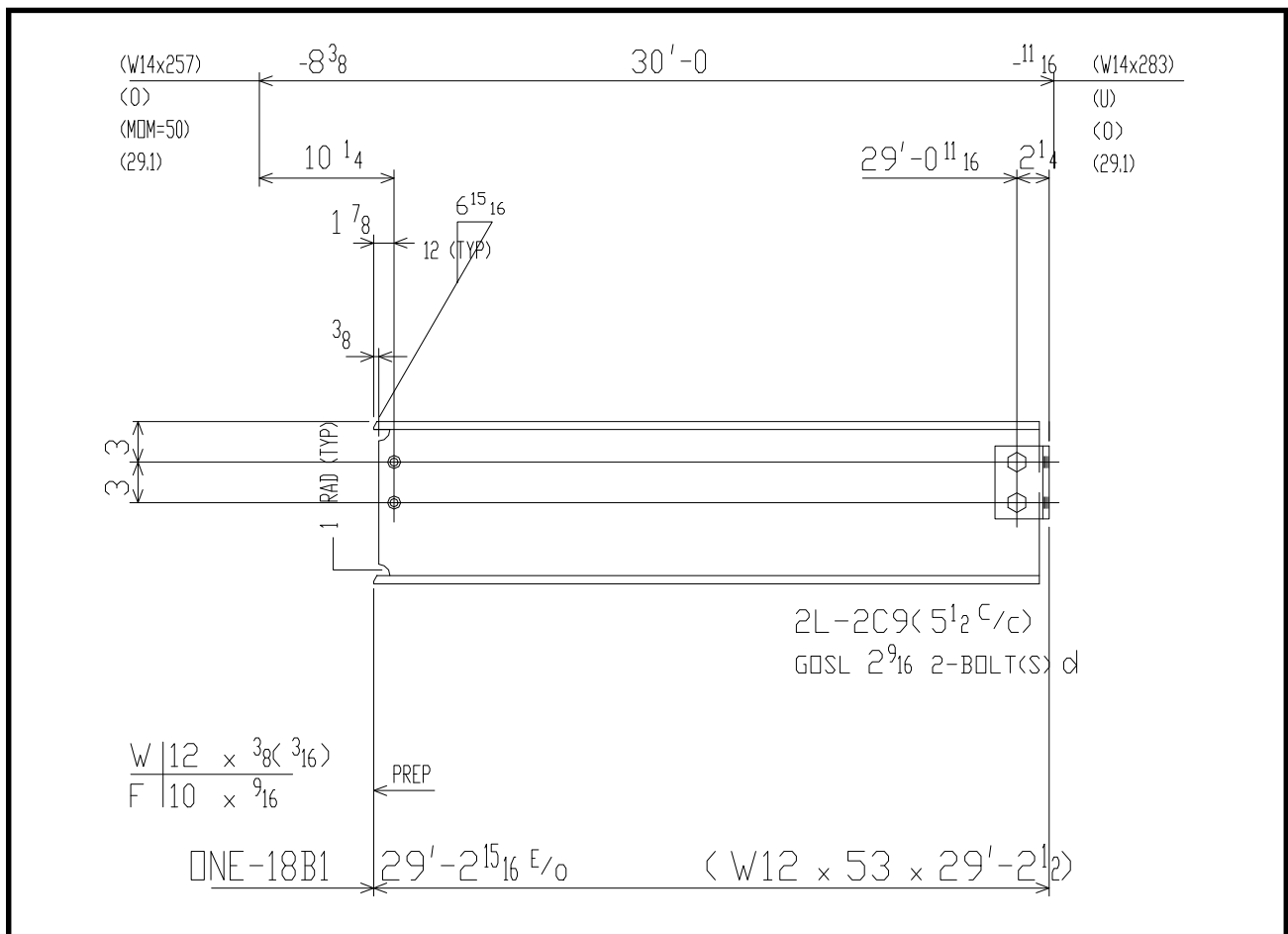
Because we realize that each job will have different design criteria, material grades, and the like, we've designed our program to allow you to set up standards for each new job. But we also realize that each shop has its own standards for things such as subassembly piece marking schemes, connection material shape size preferences, preferred method of connection, and so on.

So we created two separate databases to handle these options. SteelCad uses these database standards to **eliminate repetitive data entry** by applying the default standards to everything it can.

Remember the simple beam detail on the second page of this brochure? The reason you only need to answer five questions about the beam is due to the fact that SteelCad already has all the other information required. This keeps you from having to repeatedly inform SteelCad of such things as the starting point for running dimensions, the piece mark for any given subassembly piece (or the main assembly, for that matter), whether you want bolted or welded clip angles on the left end, and the same for the right end, what angle shape you wish to use for the clip angle material, and so on.

Sounds like **a real timesaver**, right? It is, but if we didn't add any additional versatility, then you'd always have to use the defaults set up in the databases. So what happens when you run into a **special condition**? SteelCad allows you to **easily change** what it has **automatically generated**.

Let's look at a revised version of that simple beam detail on the second page. What if we wanted a prepared flange, shear plate style moment connection at the left end instead of a standard double clip angle connection? **Four keystrokes** produces the picture below. It's that **simple**, and it's that **versatile**.



## Speed **IS** Versatility

SteelCad incorporates the kind of versatility you need into every aspect of its environment. You can customize almost **everything** in the program to suit **your needs**.

Take this title block, for example. Everything in it is **customizable**, and you can also opt to design your own or use one from a preprinted sheet, or even have SteelCad insert one you've created as a block.

FIELD BOLTS						
PAINT	1-CT PRIMER					
MATERIAL	A36 U/NOTED					
HOLES	13/16 U/NOTED					
ELECTRODES	E70XX					
TOTAL WEIGHT	4296	NO	DATE	DESCRIPTION	NO	DATE
DIAG. REF #		REVISIONS				
STEELCAD CONSULTING CORP						
DRAFTER	CUSTOMER DEMONSTRATION CONTRACT				CONTRACT NO	
DATE 02-28-2001					EXAM	
CHECKED	STRUCTURE DEMO 1				DWG NO	
DATE					19	

The same holds true for SteelCad's bill of material. You can choose which columns appear in the bill and in what order they appear. You can customize the column headings, create subheadings, and control the column widths and the height of the rows. And just like the title block, you can use SteelCad's bill of material, design your own, use one from a preprinted sheet, or have SteelCad insert one that you've created in CAD.

But do you have to make these kinds of changes every time SteelCad creates a drawing? Absolutely not.

SteelCad has a **unique concept** of job-specific and shop-specific settings. Essentially, this means that you only need to alter customizable features **once** per contract or client. And if your settings don't change from one job to the next or from one client to the next, you will only need to change them once, **period**.

SteelCad's versatility stems from these job-specific and shop-specific standards. If your shop uses bolted clip angles as its preferred method of framing, for example, should you have to select which kind of end connection you want for each beam you detail? **Some programs** actually **force you** to do this! But SteelCad allows you to set the standard one time so that it will **always** use your shop's preferred standards **until you tell it otherwise**.

SteelCad is designed to implement this kind of intuitive versatility in nearly **every aspect** of the program.

Let's take a look at some more examples of **versatility . . .**

## Speed **IS** Versatility

So SteelCad lets you **easily alter** details and end connections, but what about the finer points? What if your shop makes its own girders from plate? Better yet, what if your shop makes tapered plate girders? Or what if there just isn't a structural shape available that meets your current needs on a particular contract? Can SteelCad **deliver**? Again, the answer is a resounding **YES**.

Our shape database is quite **comprehensive**, including nearly every current AISC and CISC shape available (see the table below for more specifics). We realize, though, that there are occasionally conditions where the standard shapes just won't do. That's why we allow you to **design your own shapes**. And once you've designed them, SteelCad immediately accepts them as valid shapes--plate girders, tapered plate girders, and box columns **included**!

What's more, you can detail **virtually any type** of member using **any shape** or **material grade**. Not many programs can offer that kind of versatility, but SteelCad **does**.

Take a look at the broad range of shapes that can be used when detailing with SteelCad.

### SteelCad Shapes

<b>WF (I Beam)</b>	<b>Box Column</b>
<b>S (I Beam)</b>	<b>Pipe</b>
<b>WT (I Beam Tee)</b>	<b>Rod</b>
<b>C (Channel)</b>	<b>Angle</b>
<b>MC (Misc. Channel)</b>	<b>Double Angle</b>
<b>TS (Tube Steel)</b>	<b>Flat Bar</b>
<b>HSS (Hollow Structural Shape)</b>	<b>Plate</b>
<b>Plate Girder</b>	<b>Clevis</b>
<b>Tapered Plate Girder</b>	<b>Turnbuckle</b>

## Speed **IS** Reliability

But if SteelCad offered all this unparalleled speed, accuracy, clarity, and versatility and only delivered them part of the time or under certain circumstances, we wouldn't have much of a program at all.

That's why the **entire program**, from its inner design to the user interface to the final output of each drawing, embraces these concepts. By doing so, what you get from SteelCad in the end is perhaps the most **important** feature of all: **reliability**.

If a program delivers part of the time, but not consistently, then you waste time performing tasks that the program is supposed to deliver. The more time you are forced to use cleaning up after a program that does not always deliver what it promises, the slower the project goes, and the actual speed of getting the steel to the field is slowed as well.

You are an astute professional concerned with getting the project **done** and getting it done **right**, and you should demand the same from your steel software--not just once or occasionally, but **consistently** and **reliably**.

SteelCad will deliver. **Every** time.



# Speed **IS** Compatibility

Every program installed on your computer is part of a **team** for which the overall goal is to **enhance your productivity**. While one program may not be designed to perform a certain task, if it is designed well enough it should be able to **export its files** to another program that was designed to perform the task at hand. In a sense, the programs on your computer are like a specialized team of people all working toward a **common goal**.

Have you ever used a program that worked extremely well, but couldn't interface with other programs? Or maybe you've had an employee or coworker who just didn't work well with others. The concept is the same. Whether you're dealing with a human being or a computer program, if one team member doesn't work well with the others, you've got a problem on your hands.

An incompatible program means that your data or drawings cannot be sent to other programs or imported from them.

This is why we designed SteelCad to work with **almost any** relevant program, from the **design phase** to the **drawing phase** to the **fabrication phase**. Let's take a look at SteelCad's compatibility record.

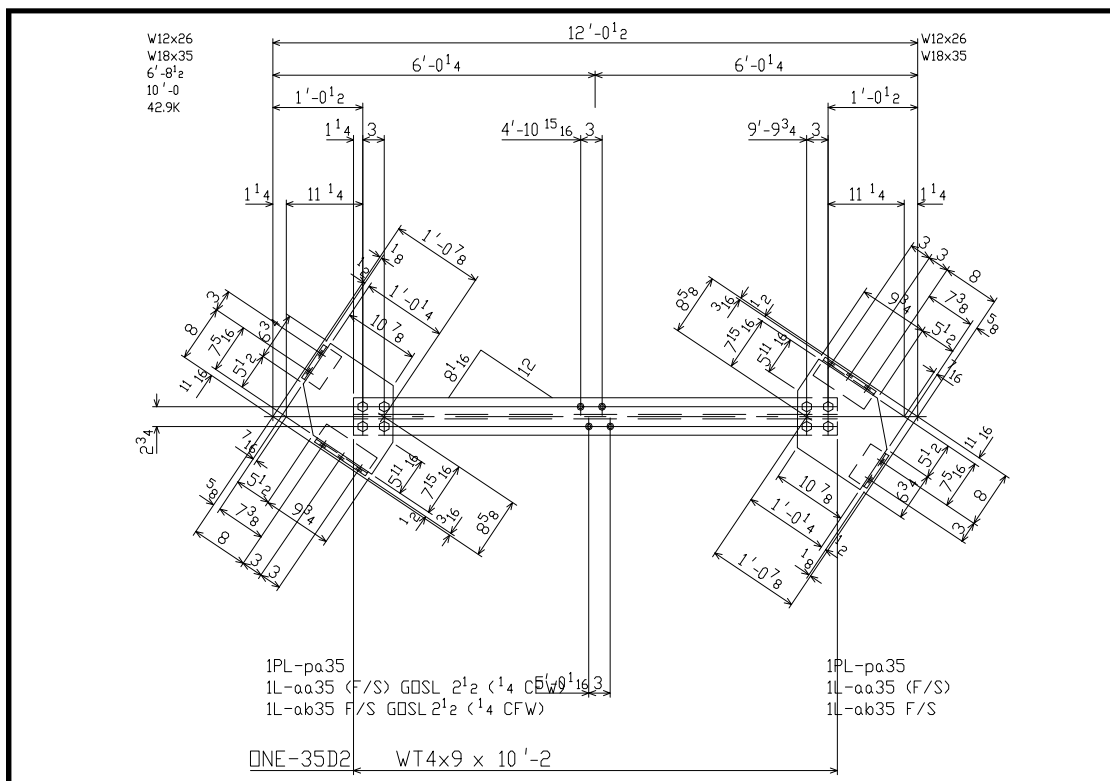
Building Frame Design Import & Export	
<ul style="list-style-type: none"><li>• Microstation</li><li>• Staad</li><li>• EaglePoint’s Frame Analysis &amp; Design (formerly CStraad)</li><li>• RAM Steel</li><li>• Kellogg</li><li>• ASCII Compatible Software</li><li>• Neutral File Compatible Software</li></ul>	
CAD Drawing Export	CNC Export
<ul style="list-style-type: none"><li>• AutoCAD (versions 12-14, 2000, 2000i, 2002)</li><li>• AutoCAD LT (all versions up to and including 2002)</li><li>• Microstation</li><li>• IntelliCAD 2000</li><li>• FastCAD</li><li>• FastCAD32</li><li>• EasyCAD32</li><li>• DXF File Compatible Software</li></ul>	<ul style="list-style-type: none"><li>• Peddinghaus</li><li>• Controlled Automation</li><li>• Metal Fabricating Systems</li><li>• Vernon Tool Company</li><li>• Industrial Control</li><li>• ASCII File Compatible Software</li><li>• DXF File Compatible Software</li></ul>
Production Control Export	
<ul style="list-style-type: none"><li>• FabTrol</li><li>• Structural Material Manager</li><li>• The Grinder</li><li>• ASCII File Compatible Software</li></ul>	

Our program also allows you to plot drawings directly from the program, print bills of material and cut lists, and generate design calculation and material list reports capable of being exported to any word processor.

So you can see that **SteelCad** is a **team player**. And we **definitely** work well with others.

If any one of these elements is missing from a program's design, the program's speed is compromised dramatically. Sure, the program itself may still be fast, but when it lacks one or more of these essential elements, the speed of delivering the finished product is greatly reduced because you have to compensate for what the program doesn't do.

Or did you know that most steel detailing software cannot even create details for horizontal bracing? Astonishing, but true. We're pretty quiet about our horizontal bracing details for the same reason we're quiet about our vertical bracing details--we tend to take them for granted because we believe that a steel detailing program wouldn't be a steel detailing program at all if it couldn't detail all kinds of structural steel. After all, how much speed is sacrificed if you have to detail some of the steel by hand or in CAD? Think about that the next time you have to detail a horizontal brace by hand.



Speed IS simplicity, accuracy, clarity, versatility, reliability, and compatibility, combined. And SteelCad is designed with all of these concepts in mind. You can see them in every aspect of our program. We take great pride in our program's ability to make your job easier than faster, from start to finish. SteelCad IS speed.

# SteelCad IS Speed

## Pricing Information

SteelCad Packages	1st	2nd	3rd	4th	5th	6th+
<b>Structural Package</b>	\$9,900*	\$7,900	\$7,900	\$4,000	\$4,000	\$4,000
Beams, columns, vertical & horizontal bracing, autobilling						
This package details all structural shapes and sizes in a piece-by-piece format.						
<b>Annual update/support fee (optional)</b>	\$1,380	\$340	\$280	\$210	\$130	\$70
<b>Detailer Package</b>	\$12,900*	\$10,900	\$10,900	\$5,450	\$5,000	\$5,000
Beams, columns, vertical & horizontal bracing, stairs, ladders, autobilling, and gather sheet creation						
Adds stairs, ladders, and gather sheet creation to the Structural Package. Gather sheets are created automatically from all detail drawings and provide the shop with quantities and individual details for all assembly pieces (clip angles, shear plates, etc.).						
<b>Annual update/support fee (optional)</b>	\$1,790	\$450	\$360	\$270	\$180	\$90
<b>Fabricator Package</b>	\$14,900*	\$12,900	\$12,900	\$6,450	\$5,000	\$5,000
Beams, columns, vertical & horizontal bracing, stairs, ladders, gather sheet creation, autobilling, CNC, and production control interface						
Adds CNC and production control to the Detailer Package. CNC and production control data are downloaded automatically from SteelCad to a variety of other programs or shop equipment.						
<b>Annual update/support fee (optional)</b>	\$2,000	\$500	\$400	\$300	\$200	\$100
<b>Detailer Enterprise Package</b>	\$20,900*	\$18,900	\$18,900	\$9,450	\$5,000	\$5,000
Beams, columns, vertical & horizontal bracing, stairs, ladders, autobilling, gather sheet creation, erection drawings, and 3D modeling						
Adds 3D modeling to the Detailer package. Choose piece-by-piece input or build a 3D model to detail the steel.						
COMING SOON: A dynamic link between 3D modeling and piece-by-piece format!						
<b>Annual update/support fee (optional)</b>	\$2,210	\$550	\$440	\$330	\$220	\$110
<b>Fabricator Enterprise Package</b>	\$23,900*	\$21,900	\$21,900	\$10,950	\$5,000	\$5,000
Beams, columns, vertical & horizontal bracing, stairs, ladders, autobilling, gather sheet creation, CNC, production control, erection drawings, and 3D modeling						
Adds 3D modeling to the Fabricator Package. Choose piece-by-piece input or build a 3D model to detail the steel.						
COMING SOON: A dynamic link between 3D modeling and piece-by-piece format!						
<b>Annual update/support fee (optional)</b>	\$2,410	\$610	\$480	\$360	\$240	\$120
All systems include one year of technical support and product updates (from date of purchase). All prices are in US Funds. Prices and package components subject to change.						
*First license price includes two days of on-site training by one of our skilled technicians.						

## Payment Options & Financing

Currently we offer several methods of payment. You can choose the option that best suits your needs from the list below. **You may use MasterCard, Visa, or American Express for any of the payment options.**



Cards

### Cash Payment Option

A single lump-sum payment via cash, check, money order, charge, or a combination of these methods. The benefit of this option is that we offer a **5% discount** when you choose this payment method unless you choose to charge any portion of the purchase price.

### Financing Option

All of our financing options are available with a **14% annual interest rate, compounded monthly**. All payments may be made using cash, check, money order, or charge. All prices are in U.S. funds.

#### Structural Package

Requires a **\$3,000.00 initial payment, maximum 36 month payment plan** for balance.

#### Detailer Package, Fabricator Package

Requires a **\$4,000.00 initial payment, maximum 36 month payment plan** for balance.

#### Detailer Enterprise Package, Fabricator Enterprise Package

Requires a **\$5,000.00 initial payment, maximum 36 month payment plan** for balance.

## What's Included?

The first license of SteelCad comes with **two free days of on-site training** by one of our **experienced detailers**. We will send a skilled technician **to your place of business**. The technician will install SteelCad, make certain that it runs properly and interfaces with your CAD system, and train all of your employees on how to use SteelCad. We feel confident that after the two-day training session you'll be producing drawings at least as fast as you would be able to produce them in CAD. In a week or so, you'll wonder how you ever detailed without SteelCad.

When you purchase SteelCad, you also get **one year of free product updates** and **toll-free** telephone technical support. Our technical support team is available from 9 AM to 5 PM Eastern time, Monday through Friday. In addition, you may contact us via **fax** or **e-mail**, and we have a user **discussion board** on our web site for those times when you just can't get to the phone during normal business hours.

Perhaps the most important thing of all, you get our dedicated programming team working to **incorporate your suggestions and needs** into future development. We know that we can't always foresee the way that each and every company will want to use our program, so our whole approach is designed to incorporate **as many user suggestions as possible** into our future development. In fact many of our program's current features came into existence from suggestions presented to us by our users. Ask the **other** software companies if they will let **you** help in the development process. **SteelCad does.**

# System Requirements

## A Note About System Requirements

The specifications listed here are the minimum system requirements needed in order to run SteelCad on your computer. Meeting these requirements does not guarantee optimum system performance. It simply means that you should be able to successfully run SteelCad on your computer if your system meets these requirements.

This is why we've included a section for recommended system requirements below. If your computer meets the minimum requirements, but you want to be sure that you'll be satisfied with system performance while running SteelCad, you should make sure that your computer meets the recommended system requirements shown further down on this page.

### Minimum System Requirements

- IBM PC compatible computer with Intel Pentium® 200 MHz processor
- 64 MB system RAM
- 200 MB available hard disk space
- 24X CD-ROM drive
- Microsoft DirectX® compatible 3D enhanced video card (8 MB video RAM)
- Microsoft Windows® 95/98/ME/2000/XP or NT (with service pack 4 installed)
- Minimum desktop resolution of 1024 x 768 pixels

### Recommended System Requirements

- IBM PC compatible computer with Intel Pentium® III 600 MHz processor
- 256 MB system RAM
- 1 GB available hard disk space
- 42X CD-ROM drive
- Microsoft DirectX® compatible 3D enhanced video card (32 MB video RAM)
- Microsoft Windows® 98/ME/2000/XP or NT (with service pack 4 installed)
- 56Kbps Modem with full Internet access and e-mail (high speed connection preferred for Internet updates, if available)
- Minimum desktop resolution of 1280 x 1024 pixels (for the best possible experience try using dual monitors if your operating system and video card(s) support it)

## Still not convinced? Need more information?

Our helpful and knowledgeable sales staff are all **experienced steel detailers** who will be happy to answer any of your questions. We are available from 9 AM to 5 PM Eastern time, Monday through Friday.

Just call us at **1-800-456-7875**.

Or you can visit our web site to view or **download a sample contract** created using SteelCad. Just point your web browser to **[www.steelcad.com](http://www.steelcad.com)** and click on the **Products** button.